

# KaNest<sup>®</sup>-Supervisor Test Automation

**KaNest<sup>®</sup>-Supervisor** is dedicated to centrally drive and supervise all interactions with the System Under Test.

**KaNest<sup>®</sup>-Supervisor** enables to fully automate a test campaign without manual management.

**KaNest<sup>®</sup>-Supervisor** is your best solution to optimize costs and duration of test phases. It allows to:

- Test on a wider coverage;
- Test more deeply;
- Test more often;
- Enhance the value of tester expertise.

## Key features

- Intrusive and non-intrusive testing
- Control of all the various communication interfaces of the System Under Test (open API with any specific software or devices like a keypad, robots and/or internal tools)
- Driving of KaNest<sup>®</sup> and KaNest<sup>®</sup>-ICC simulators through existing Test Suites
- Diagnosis of tests resulting from the behavior of the System Under Test through all driven interfaces
- SQL Interface to retrieve data from the databases of the System Under Test



Example of KaNest<sup>®</sup>-Supervisor implementation to automate POS terminal testing

**GALITT Advantage**

**KaNest<sup>®</sup>-Supervisor manages all the interfaces of the System Under Test:**

- KaNest<sup>®</sup>-Supervisor enables to **fully automate** test campaigns from the test execution to the production of a **consolidated diagnosis**.
- KaNest<sup>®</sup>-Supervisor drives the KaNest<sup>®</sup> and KaNest<sup>®</sup>-ICC **simulators as well as all standard or specific tools** from the industry which interact with the System Under Test.
- KaNest<sup>®</sup>-Supervisor is **compliant with all usual means of testing**, reference tools (recognized Test Suites) as well as internal tools. KaNest<sup>®</sup>-Supervisor is the best complementing tool.
- KaNest<sup>®</sup>-Supervisor allows testers to **focus on test know-how and expertise**, by discharging them from repetitive tasks especially during **regression testing**.

## CONDUCTOR OF TEST CAMPAIGN

**KaNest®-Supervisor** is the “Conductor” who drives and supervises all interactions with the System Under Test (SUT). It can so produce full automated diagnostic messages on the behavior of the SUT.

The access to the various SUT interfaces can be of different types:

- in a non-intrusive way through robots for instance;
- in an intrusive way when physical Inputs/Outputs of the SUT can be emulated;
- by using additional simulation tool to emulate a remote device for instance;
- ...

## SPECIFIC INTERFACES

To drive the specific interfaces of the SUT, **KaNest®-Supervisor** fits an interface module or offers a simplified communication language.

## SCRIPTS

**KaNest®-Supervisor** includes a scripting language based on the KaNest® Script language and extended by specific instructions such as:

- Simulator Start;
- Simulator Stop;
- Test Case Execution;
- Reply to Simulator;
- Start SUT again.

**KaNest®-Supervisor** scripts are organized through Tester Views which can be created:

- manually via the integrated editor;
- by importation of a CSV file;
- by selection within an external ACCESS™ table.

## RESULT CONSOLIDATION AND UNIQUE DIAGNOSIS

The diagnosis given by **KaNest®-Supervisor** relies on gathered and incorporated information issued by the different simulators and tool kit interfaces set up for the test.

## Technical specifications

### Functions

- Control of test tools and specific interfaces
- Coordination of SUT I/O interactions
- Collection and synthesis of behaviors.
- Elaboration of global diagnoses.

### Testing design

- Script language, features and ergonomics of KaNest®
- Importation of KaNest® Tester View into KaNest® -Supervisor
- SQL Interface to retrieve data from the databases of the System Under Test
- Tool kit enabling to manage new interfaces (control of a new tool, robot or specific interface)

### Hardware Configuration

- Pentium PC (1 GHz or above)
- XGA monitor
- 1 Gb RAM
- 1 Gb hard disk space
- CD-ROM drive
- USB port
- Windows™ XP SP2 or SP3 (recommended)

The screenshot shows the KaNest Supervisor interface with a log window titled "2CA.062.01 Case 01.rb9". The log contains various events such as "Message Sending", "Command Reception", and "Describe Result". Below the log is a data table with columns for "Data" and "Value".

Event	Description
Remark	ARQC KaSYS: Response is according to ARQC Ka
Message Reception	
Message Sending	Send the structured variable '[SYS] Message
Command Reception	Command GENERATE AC
Remark	PASS : Terminal sent a 2nd Generate AC with
Send Response	Send the structured variable '[SYS] Response
Command Reception	Command GET DATA
Plugin Device	Read main LCD in Va_sContenuEcran
Send Response	Send the structured variable '[SYS] Response
Warning	Vcc Off
Plugin Device	Read main LCD in Va_sContenuEcran
Plugin Device	Remove Probe
Remark	Transaction processed until 1st GENERATE AC
Describe Result	2CA.062.01 Case 04 result:
Describe Result	2CA.062.01 Case 04 result: PASS VERDICT

  

Data	Value
70 : 70 - Authorization Request or Response	
8A : 8A - Response Code	00
91 : 91 - ARPC	123456...